

# Notice of Allowability

Application No.

10/751,471

Examiner

Angela M. Lie

Applicant(s)

YANG, CHEE-HWAN

Art Unit

2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/31/2006.
2. ☒ The allowed claim(s) is/are 1-6,8-10,12-16 and 19-26.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
DON WONG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Lisa Kilday on September 15, 2006.
3. The application has been amended as follows:
  - In claim 1, in line 5, after "extending," add --unsupported--.
  - In claim 8, in line 1, after "F antenna", add --installed in a monitor of a portable computer--.
  - In claim 8, in line 4, after "extending", add --unsupported--.
  - In claim 15, in line 6, after "ground plane", add --extending unsupported in a first direction--.
  - In claim 15, in line 9, after "first radiator", add --extending unsupported in the first direction--.
  - In claim 25, in line 7, before "in a first direction", insert --unsupported,--.
4. The following examiner's amendment has been made in order to fully incorporate previously indicated allowable subject matter into the independent claim 8, and therefore place this application in condition for allowance.

***Allowable Subject Matter***

5. Claims 1-6, 8-10, 12-16 and 19-26 are allowed.

6. The following is an examiner's statement of reasons for allowance:

As to claims 1, 8, 15, 25 and 26, the prior art failed to teach a potable computer comprising a planar inverted F antenna installed in the monitor, wherein the antenna having a ground plane, a first radiator connected to the ground plane, extending, unsupported, in a first direction, and having a primary face approximately parallel to the ground plane; a second radiator connected at a first end thereof to the first radiator, extending, unsupported, in the first direction, and having a primary face approximately perpendicular to the primary face of the first radiator; and an antenna cable connected to a second end of the second radiator.

As to claims 2-6, 9, 10, 12-14, 16 and 19-24, those claims are allowed by the virtue of their dependency on claims 1, 8, 15, 25 and 26 respectively.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***The Prior Art***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Tai et al (US Publication 2003/0234742) disclose a dual-frequency inverted-F antenna comprising two radiating elements, a ground plane and the cable connector attached to the second radiating element.
- Kuo et al (US Publication 2004/0174305) disclose a multi-band antenna comprising two radiating elements and a ground plane, wherein two radiating elements are perpendicular to each other.
- Utsumi (US Patent 6100850) discloses an electronic price label antenna comprising two radiating elements connected to a ground plane..

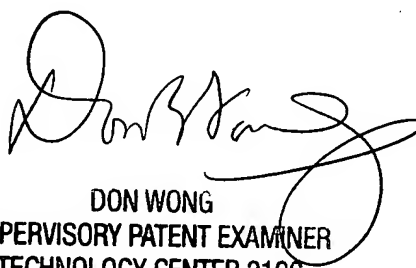
### ***Inquiry***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela M. Lie whose telephone number is 571-272-8445. The examiner can normally be reached on M-F.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
**Angela M Lie**  
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